No.



9600369

# HHIR UNIVERD SYRMES OF AMERICA

<u>TO ALL TO WHOM THESE; PRESENTS SHALL COME:</u>

Hioneer Hi-Bred International, Inc.

HILLORS, THERE HAS BEEN PRESENTED TO THE

#### Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED, PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE basic seed of the variety in a public repository as provided by LAW, the right to exclude others TROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR IMPORTING IT, OR EXPORTING IT,

CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE ABOVE PURPOSE, OR USING IT IN DUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY ECTION ACT. (84 STAT. 1542 AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

*SOYBEAN* 

'9306'

In Testimonn Mexicol, I have hereunto set my hand and caused the seal of the Mant Interior Protection Office to be affixed at the City of Washington, D.C. this thirty-first day of March, in the year of our Lord two thousand.

ry of Agriculture

AGRICULTURAL MARKETING SERVICE SCIENCE DIVISION - PLANT VARIETY PROTECTION OFFICE  APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE (Instructions and Information collection burden statement on reverse)  1. NAME OF APPLICANT(S) (as it is to appear on the Certificate)  Pioneer Hi-Bred International, Inc.  4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code, and Country)  700 Capital Square 400 Locust Street Des Moines, Iowa 50309  7. GENUS AND SPECIES NAME Glycine max L.  CROP KIND NAME (Common name) Soybean  0. IF THE APPLICANT NAMED IS NOT A "PERSON", GIVE FORM OF ORGANIZATION (corporation, partnership, associon corporation)	1974 (5 U.S.C. 552a).  Application is required in order to certificate is to be issued (7 U.S.C. until certificate is issued (7 U.S.C. 2. TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER  5. TELEPHONE (include area code) 515-270-3582  6. FAX (include area code) 515-253-2288	3. VARIETY NAME  9306  FOR OFFICIAL USE ONLY PYPO NUMBER  9 6 0 0 3 6 9  F DATE  IN SECURITY NAME  PROPERTY NAME  1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE (Instructions and Information collection burden statement on reverse)  NAME OF APPLICANT(S) (as it is to appear on the Certificate)  Pioneer Hi-Bred International, Inc.  ADDRESS (Street and No., or R.F.D. No., City, State, and ZiP Code, and Country)  700 Capital Square 400 Locust Street Des Moines, Iowa 50309  GENUS AND SPECIES NAME Glycine max L.  CROP KIND NAME (Common name) Soybean  IF THE APPLICANT NAMED IS NOT A "PERSON", GIVE FORM OF ORGANIZATION (corporation, partnership, associated components)  IF INCORPORATED, GIVE STATE OF INCORPORATION IOWA  NAME AND ADDRESS OF APPLICANT REPRESENTATIVE(S), IF ANY, TO SERVE IN THIS APPLICATION AND IDENTAL Debra Blair (Copy)	certificate is to be Issued (7 U.S.C. until certificate is Issued (7 U.S.C. 2. TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER  5. TELEPHONE (Include area code) 515-270-3582  6. FAX (Include area code) 515-253-2288	2421). Information is held confidential 2426).  3. VARIETY NAME  9306  FOR OFFICIAL USE ONLY PVPO: NUMBER  9 6 0 0 3 6 9  FILING AND EXAMINATION FEE:  1 2450 CO  E S DATE  C CERTIFICATION FEE:  2 2 3 199  (inclide area code)  515-270-3582		
Pioneer Hi-Bred International, Inc.  ADDRESS (Street and No., or R.F.D. No., City, State, and ZiP Code, and Country)  700 Capital Square 400 Locust Street Des Moines, Iowa 50309  GENUS AND SPECIES NAME Glycine max L.  CROP KIND NAME (Common name) Soybean  IF THE APPLICANT NAMED IS NOT A "PERSON", GIVE FORM OF ORGANIZATION (corporation, partnership, associon Corporation)  IF INCORPORATED, GIVE STATE OF INCORPORATION Iowa  NAME AND ADDRESS OF APPLICANT REPRESENTATIVE(S), IF ANY, TO SERVE IN THIS APPLICATION AND I John Grace  Debra Blair (Copy)	5. TELEPHONE (Include area code) 515-270-3582 6. FAX (Include area code) 515-253-2288  clation, etc.) (Common name) 12. DATE OF INCORPORATION May 6, 1926 RECEIVE ALL PAPERS	FOR OFFICIAL USE ONLY PVPO NUMBER  9600369  F DATE  N DATE  1 N DEXAMINATION FEE:  1 2450 00  CERTIFICATION FEE:  2 UDATE  (Inclide area code)  515-270-3582		
ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code, and Country)  700 Capital Square 400 Locust Street Des Moines, Iowa 50309  BENUS AND SPECIES NAME Glycine max L.  Luguminosae  ROP KIND NAME (Common name) Soybean  IF THE APPLICANT NAMED IS NOT A "PERSON", GIVE FORM OF ORGANIZATION (corporation, partnership, assoc Corporation  IF INCORPORATED, GIVE STATE OF INCORPORATION lowa  NAME AND ADDRESS OF APPLICANT REPRESENTATIVE(S), IF ANY, TO SERVE IN THIS APPLICATION AND I	515-270-3582  6. FAX (include area code) 515-253-2288  citation, etc.) (Common name)  12. DATE OF INCORPORATION May 6, 1926  RECEIVE ALL PAPERS	FOR OFFICIAL USE ONLY PVPO NUMBER  9600369  F DATE  IN X LLQ 30, 1996  FILING AND EXAMINATION FEE:  E 2450 02  E DATE  CERTIFICATION FEE:  E DATE  (inclide area code)  515-270-3582		
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Glycine max L. Luguminosae  ROP KIND NAME (Common name)  Soybean  F THE APPLICANT NAMED IS NOT A "PERSON", GIVE FORM OF ORGANIZATION (corporation, partnership, associon Corporation  FINCORPORATED, GIVE STATE OF INCORPORATION  Iowa  AME AND ADDRESS OF APPLICANT REPRESENTATIVE(S), IF ANY, TO SERVE IN THIS APPLICATION AND I  John Grace Debra Blair (Copy)	nciation, etc.) (Common name)  12. DATE OF INCORPORATION  May 6, 1926  RECEIVE ALL PAPERS	DATE  CERTIFICATION FEE:  DATE  CINCILIDE Area code)  515-270-3582		
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Soybean  THE APPLICANT NAMED IS NOT A "PERSON", GIVE FORM OF ORGANIZATION (corporation, partnership, associon Corporation  INCORPORATED, GIVE STATE OF INCORPORATION  I lowa  AME AND ADDRESS OF APPLICANT REPRESENTATIVE(S), IF ANY, TO SERVE IN THIS APPLICATION AND I John Grace  Debra Blair (Copy)	2. DATE OF INCORPORATION  May 6, 1926  RECEIVE ALL PAPERS	CERTIFICATION FEE:  DATE DATE (include area code)  515-270-3582		
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John Grace Debra Blair (Copy)	RECEIVE ALL PAPERS	515-270-3582		
John Grace Debra Blair (Copy)	· )	515-270-3582		
Zeola Ziai (copy)				
P.O. Box 1004 400 Locust Street		15. FAX (include area code)		
Johnston, IA 50131-1004 Des Moines, IA 50.	)309	515-253-2288		
HECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (Follow Instructions on reverse)				
a. V Exhibit A. Origin and Breeding History of the Variety	•			
b. 🗸 Exhibit B. Statement of Distinctness				
c. 🗸 Exhibit C. Objective Description of the Variety				
d. 🗹 Exhibit D. Additional Description of the Variety	•			
e. 🗹 Exhibit E. Statement of the Basis of the Applicant's Ownership				
f. Voucher Sample (2,600 viable untreated seeds or, for tuber propagated varieties verification that to	tissue culture will be deposited and ma	Intained in a public repository)		
g. 🗹 Filing and Examination Fee (\$2450), made payable to "Treasurer of the United States" (Mail to P				
DES THE APPLICANT SPECIFY THAT SEED OF THIS VARIETY BE SOLD BY VARIETY NAME ONLY, AS A CL	LASS OF CERTIFIED SEED (See Section	83(a) of the Plant Variety Protection Act)?		
YES if "yes," answer items 18 and 19 below) V NO if "no," go to	o item (20)			
DES THE APPLICANT SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO NUMBER OF 19. IF "I SERRATIONS?	YES" TO ITEM 18, WHICH CLASSES OF	OF PRODUCTION BEYOND BREEDER SEED?		
' YES NO [	FOUNDATION REGISTER	ERED CERTIFIED		
AS THE VARIETY OR A HYBRID PRODUCED FROM THE VARIETY BEEN RELEASED, USED, OFFERED FOR	SALE, OR MARKETED IN THE U.S. OR	OTHER COUNTRIES?		
✓ YES (If "yes," give names of countries and dates)  □ NO  J.S 1996				
The applicant(s) declare that a viable sample of basic seed of the variety will be furnished with application a				
applicable, or for a tuber propagated variety a tissue culture will be deposited in a public repository and ma	aintained for the duration of the certifica	ate ·		
The undersigned applicant(s) is/are) the owner(s) of this sexually reproduced or tuber propagated plant var Section 41, and is entitled to protection under the provisions of Section 42 of the Plant Variety Protection A	rietv. and believe(s) that the varietv is n Act.	ew. distinct. uniform, and stable as required		
applicant(s) is(are) informed that false representation herein can jeopardize protection and result in penaltic				
	OF APPLICANT (Owner(s))			
1)/// S				
Ni Man trace, III				
(Please print or type)  NAME (Please D. John Grace III	e print or type)			
CITY OR TITLE DATE CAPACITY OR	O TITLE	DATE		
Soybean Research Coordinator  8/20/96	·	DATE		

#### Exhibit A. Origin and Breeding History of the Variety

Soybean Variety 9306

Variety 9306 evolved from a 1988 cross of

9273\*(A3733\*((A3733\*RESNIK)\*A3733))

It is an F5-derived variety which was advanced to the F5 generation by modified single seed descent. The F5:6 progeny row of variety 9306 was grown in the summer of 1991. Subsequently, 9306 has undergone four years of extensive testing and purification and has been observed by the breeder to be uniform and stable for all plant traits from generation to generation, with no evidence of variants. On the basis of high yield, Phytophthora root rot resistance, and brown stem rot resistance variety 9306 was released for sale.

The purification block was grown during the summer of 1993 and 134 sublines were bulked for increase. Fourteen acres (breeders seed) were grown in the summer of 1994. 349 acres of parent seedstock (foundation seed equivalent) were grown in the summer of 1995 and 17,454 bushels harvested.

## Exhibit B. Statement of Distinctness

Soybean Variety 9306

Variety 9306 is similar to variety 9273. Both varieties have purple flowers, tawny pubescence and yellow seeds with black hila. However, 9273 is susceptible to race 1 of *Phytophthora megasperma* var. *sojae* whereas 9306 is resistant.

Variety 9306 is similar to variety 9311. Both varieties have purple flowers, tawny pubescence and yellow seeds with black hila. However, 9311 is susceptible to race 1 of *Phyyophthora root rot*, whereas 9306 is resistant.

# U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE SEED DIVISION - PLANT VARIETY PROTECTION OFFICE BELTSVILLE, MARYLAND 20705

EXHIBIT C (Soybean)

# OBJECTIVE DESCRIPTION OF VARIETY SOYBEAN (Glycine max L.)

NAME OF APPLICANT(S)	TEMPORARY DESIGNATION	VARIETY NAME
Pioneer Hi-Bred International, Inc.		9306
ADDRESS (Street and No., or R.F.D. No., City, State, and ZiP Code)		FOR OFFICIAL USE ONLY
7300 N.W. 62nd Ave., P.O. Box 1004	İ	PVPO NUMBER
Johnston, IA 50131-1004		9600369
Choose the appropriate response which characterizes the variety in the number of boxes provided, place a zero on the first box when number adequate soybean variety description. Other characters should be d	MDeris 9 or less (e.g., lo, lo, l) Star	rred characters -L. are considered fundamental to an
1. SEED SHAPE:	0 0	
2 L	W T	
	1 1 1	
1 = Spherical (L/W, L/T, and T/W ratios = < 1 3 = Elongate (L/T ratio > 1.2; T/W = < 1.2)	· · · · · · · · · · · · · · · · · · ·	l Flattened (L/W ratio > 1.2; L/T ratio = < 1.2) Flattened (L/T ratio > 1.2; T/W > 1.2)
★ 2. SEED COAT COLOR: (Mature Seed)		
1 1 = Yellow 2 = Green 3 = Brown	4 = Black 5 = Other (Spe	ecify)
3. SEED COAT LUSTER: (Mature Hand Shelled Seed)		
1 = Dull ('Corsoy 79'; 'Braxton')	2 = Shiny ('Nebsoy'; 'Ga	soy 17')
★ 4. SEED SIZE: (Mature Seed)		
1 4 Grams per 100 seeds		
★ 5. HILUM COLOR: (Mature Seed)		
6 1 = Buff 2 = Yellow 3 = Brown 4 = Gray	5 = Imperfect Black 6 = Bi	ack 7 = Other (Specify)
★ 6. COTYLEDON COLOR: (Mature Seed)		
1 1 = Yellow 2 = Green		
★ 7. SEED PROTEIN PEROXIDASE ACTIVITY:		
2 1 = Low 2 = High		
★ 8. SEED PROTEIN ELECTROPHORETIC BAND:		
1 = Type A (SP1 a) 2 = Typ	e B (SP1 b)	
★ 9. HYPOCOTYL COLOR:		
1 = Green only ('Evans'; 'Davis')	2 = Green with bronz	ze band below cotyledons ('Woodworth'; 'Tracy')
3 = Light Purple below cotyledons ('Beeson'	; 'Pickett 71')	
4 = Dark Purple extending to unifoliate leave	es ('Hodgson'; 'Coker Hampton	266A')
★ 10. LEAFLET SHAPE:		
3 1 = Lanceolate 2 = Oval 3 = 6	Ovate 4 = Other (Specif	y)
FORM LMGS-470-57 (6-83) (Edition of 2-82 is obsoiete.	)	Page 1 of 4

Variety	Name	9306
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11. LEAFLET SIZE:		
2 1 = Small ('Amsoy 71'; 'A5312')	2 = Medium ('Corsoy 79'; 'Gasoy 17')	
3 = Large ('Crawford'; 'Tracy')		
12. LEAF COLOR:		
	2 = Medium Green ('Corsoy 79'; 'Braxton')	
3 = Dark Green ('Gnome'; 'Tracy')		
★ 13. FLOWER COLOR:		
2 1 = White 2 = Purple	3 = White with purple throat	
★ 14. POD COLOR:		
2 - Blown	3 = Black	
★ 15. PLANT PUBESCENCE COLOR:		
2 1 = Gray 2 = Brown (Tawny)		
16. PLANT TYPES:		
2 1 = Siender ('Essex'; 'Amsoy 71')	2 = Intermediate ('Amcor'; 'Braxton')	
3 = Bushy ('Gnome'; 'Govan')	· · · · · · · · · · · · · · · · · · ·	
★ 17. PLANT HABIT:		<u> </u>
3 1 = Determinate ('Gnome'; 'Braxton')	2 = Semi-Determinate ('Will')	
3 = Indeterminate ('Nebsoy'; 'Improved Pe		
	, and the same of	
18. MATURITY GROUP:	•	
$\begin{vmatrix} 0 & 6 & 1 = 000 & 2 = 00 & 3 = 0 & 4 = 0 \end{vmatrix}$	$= I \qquad 5 = II \qquad 6 = III \qquad 7 = IV \qquad 8 = V$	
9 = VI 10 = VII 11 = VIII 12	2 = IX $13 = X$	
★ 19. DISEASE REACTION: (Enter 0 = Not Tested; 1 = Sus	sceptible: 2 = Resistant)	
BACTERIAL DISEASES:		
+ []		
Bacterial Pustule (Xanthomonas phased	ou var. sojensis)	
★ 1 Bacterial Blight (Pseudomonas glycinea)		
★ 0 Wildfire (Pseudomonas tabaci)		
FUNGAL DISEASES:		
★ 1 Brown Spot (Septoria glycines)		
Frogeye Leaf Spot (Cercospora sojina)		
Race 1 Race 2 Race	ce 3 Race 4 Race 5 Other (Specify)	
Target Spot (Corynespora cassiicola)		
Downy windew (Peronospora unonorum v	rar. mansnurica)	
Powdery Mildew (microspnaera diffusa)		
Brown Stem Rot (Cephalosporium gregati	um)	
Stem Canker (Diaporthe phaseolorum var	r. caulivora)	

19. D	ISEASES REACTION: (	Enter 0 = Not Tested; 1 = Susceptible	; 2 = Resistant) (Continued)	
_	FUNGAL DISEASES: (Co		•	
* [	Pod and Stem Blight	(Diaporthe phaseolorum var; sojae)		
Ļ	Purple Seed Stain (	Cercospora kikuchii)		
	1 Rhizoctonia Root Rot	(Rhizoctonia solani)		
_	Phytophthora Rot (F	Phytophthora megasperma var. sojae)		
*	2 Race 1 2 Rac	e 2 2 Race 3 2 Race 4	2 Race 5 0 Race 6	2 Race 7
	2 Race 8 2 Rac	9 Other (Specify)		
_	VIRAL DISEASES:			
	Bud Blight (Tobacco	Ringspot Virus)		
	Yellow Mosaic (Bean	Yellow Mosaic Virus)		
* [	Cowpea Mosaic (Cow	pea Chlorotic Virus)		
	Pod Mottle (Bean Pod	Mottle Virus)		
* _	Seed Mottle (Soybean	Mosaic Virus)		
	NEMATODE DISEASES:			
-L [	Soybean Cyst Nemato	de (Heterodera glycines)	·	-
* [	Race 1 Race	2 Race 3 Race 4	Other (Specify)	
	Lance Nematode (Hop	lolaimus Colombus)		
* [	Southern Root Knot No	ematode (Meloidogyne incognita)		
* 0	Northern Root Knot No	ematode <i>(Meloidogyne Hapla)</i>		
0	Peanut Root Knot Nen	natode (Meloidogyne arenaria)		
0	Reniform Nematode (F	Rotylenchulus reniformis)		
	OTHER DISEASE NOT	ON FORM (Specify)		
20. PH	YSIOLOGICAL RESPON	SES: (ENTER 0 = Not tested, 1 = Sus	ceptible, 2 = Resistant)	
<b>★</b> 0	iron Chlorosis on Calca	reois Soil		
	Other (Specify)			
21. INS	ECT REACTION: (ENTE	R 0 = Not tested, 1 = Susceptible, 2 =	Resistant)	
0	7			
0	=			
<u> </u>	Other (Specify)			
22. IND		MOST CLOSELY RESEMBLES THAT	CUDMITTED	
	ARACTER	NAME OF VARIETY		NAME OF VARIETY
	nt Shape	9281	CHARACTER Seed Coat Luster	NAME OF VARIETY 9273
	f Shape	9281	Seed Size	A3733
<del></del>	f Color	9281	Seed Size	A3733
Lea	f Size	9281	Seedling Pigmentation	9273
FORM LMC	GS-470-57 (6-83)			PAGE 3 of 4

## 23. GIVE DATA FOR SUBMITTED AND SIMILAR STANDARD VARIETY: Paired Comparison Data

VARIETY	NO. OF PLANT DAYS LODGING	CM PLANT	LEAFLET SIZE		SEED CONTENT		SEED SIZE	NO.	
	MATURITY	SCORE	HEIGHT	CM Width	CM Length	% Protein	% Oil	G/100 SEED	SEEDS POD
Submitted 9306	123	1.7	87			41.4	23.1	14	3
Name of Similar Variety 9281	120	1.4	82			40.7	22.9	15	3

#### PUBLICATIONS USEFUL AS REFERENCE AIDS FOR COMPLETING THIS FORM:

- 1. Caldwell, B.E., ed. 1973. Soybeans: Improvement, Production, and Uses. Amer. Soc. Agron. Monograph No. 16.
- 2. Buttery, B.R. and R.I. Buzzell. 1968. Peroxidase activity in seeds of soybean varieties. Crop Sci., 8: 722-725.
- 3. Hymowitz, T. 1973. Electrophoretic analysis of SBTI-A2 in the USDA soybean germplasm collection. Crop. Sci., 13: 420-421
- 4. Payne, R.C. and L.F. Morris. 1976. Differentiation of soybean cultivars by seedling pigmentation patterns. J. Seed Technol. 1:1-19

### Exhibit D. Additional Description of the Variety

Soybean Variety 9306

In Exhibit C we have identified variety 9306 as susceptible to bacterial blight, brown spot, pod and stem blight, rhizoctonia root rot, bud blight, yellow mosaic, cowpea mosaic, pod mottle and seed mottle.

This does not mean that variety 9306 is any worse for these problems than other varieties of similar maturity. Rather, we do not consider 9306 to be immune to these problems. Therefore, we have chosen to be conservative and have identified the line as "susceptible".

Variety 9306 is an early group III variety. If group III maturities are divided into tenths, the relative maturity of 9306 is 3.0.

#### Isozyme Table

ACO2 ACO3 ACO4 ACP DIA ENP IDH1 IDH2 MDH MPI PGM1 PHI1 1 1 1 A B A 1 1 B A 1 1

# Exhibit E. Statement of the Basis of Applicant's Ownership

Soybean Variety 9306

Variety 9306 was originated and developed by U.S. plant breeders from whom, by agreement, Pioneer Hi-Bred International, Inc. has obtained exclusive rights to variety 9306. No rights to variety 9306 are retained by the plant breeder or by any other party.